

**IN THE CLAIMS:**

Cancel claims 25 and 28 and amend claims 19, 24, 29, 30, 31, 33, and 48 as follows:

19. (Currently Amended) A method of treating fluids by use of at least one bulk material comprising:

a. flowing a fluid substantially through a plurality of bulk material beds, said fluid flowing from a bottom to a top of at least one bulk material bed;

b. moving said at least one bulk material in at least one of said bulk material beds countercurrent to the flow of said fluid through at least one of said bulk material beds;

c. delivering said at least one bulk material via a movable bulk material delivery mechanism for at least partially adding said at least one bulk material to said top of said at least one bulk material beds wherein said movable bulk material delivery mechanism is movable to a plurality of said bulk material beds so as to provide substantially even distribution of said at least one bulk material over a given bulk material bed until said at least one bulk material in said at least one bulk material bed has been properly exchanged; ~~and,~~

d. operating ~~[[a]]~~ said plurality of said bulk material beds in parallel such that said removing and said adding of said at least one bulk material in ~~[[a]]~~ said plurality of said bulk material beds occurs successively; and,

e. said at least one bulk material bed includes a loading opening adapted to receive said at least one bulk material into said top of said bulk material bed, and at least one closeable unloading opening to controllably remove said at least one bulk material from said bottom of said at least one bulk material bed.

20. (Original) The method as defined in claim 19, wherein said at least one bulk material bed has been properly exchanged with said at least one bulk material when said at least one bulk material has reach a desired height in said at least one bulk material bed or until a desired amount of said at least bulk material has been removed and replenished in said at least one bulk material bed.

21. (Original) The method as defined in claim 20, wherein said at least one bulk material bed has been properly exchanged with said at least one bulk material by at least partially removing said at least one bulk material from said bottom of said at least one bulk material bed while said at least one bulk material is at least partially added to said top of said at least one bulk material bed.

22. (Original) The method as defined in claim 20, wherein said at least one bulk material bed has been properly exchanged with said at least one bulk material by at least partially adding said at least one bulk material to said top of said at least one bulk material bed without removing said at least one bulk material from said bottom of said at least one bulk material bed.

Claim 23 (Cancel)

24. (Currently Amended) A method of treating fluids by use of at least one bulk material comprising:

- a. flowing a fluid substantially through a plurality of bulk material beds, said fluid flowing from a bottom to a top of at least one bulk material bed;
- b. moving said at least one bulk material in at least one of said bulk material beds countercurrent to the flow of said fluid through at least one of said bulk material beds;

c. at least partially adding said at least one bulk material to said top of said at least one bulk material beds so as to provide substantially even distribution of said at least one bulk material over a given bulk material bed until said at least one bulk material in said at least one bulk material bed has been properly exchanged;

d. operating a plurality of said bulk material beds in parallel such that said removing and said adding of said at least one bulk material in a plurality of said bulk material beds occurs successively;

e. said at least one bulk material bed includes a loading opening adapted to receive said at least one bulk material into said top of said bulk material bed, and at least one closeable unloading opening to controllably remove said at least one bulk material from said bottom of said at least one bulk material bed;

f. including a movable bulk material delivery mechanism to at least partially deliver said at least one bulk material to said ~~at least one~~ plurality of said bulk material beds;

g. said movable bulk material delivery mechanism includes a container, said container including a plurality of slit openings or linear openings that are used to at least partially deliver said at least one bulk material ~~in~~ to said at least one plurality of said bulk material beds; and,

h. said container is movable on guides, and said container includes a trough with closeable unloading openings which are arranged over a trough floor in a surface distribution ~~or in a~~ linear arrangement.

25. (Cancel) The method as defined in claim 24, wherein said bulk material delivery mechanism is moved along a plurality of said bulk material beds.

26. (Original) The method as defined in claim 24, including the step of at least partially replenishing said movable bulk material delivery mechanism with said at least one bulk material after said movable bulk material delivery mechanism has at least partially delivered said at least one bulk material to at least one of said bulk material beds.

27. (Original) The method as defined in claim 19, including a movable bulk material reception mechanism to receive said at least one bulk material that is removed from said at least one bulk material bed.

28. (Cancel) The method as defined in claim 19, including a movable bulk material delivery mechanism to at least partially deliver said at least one bulk material to said at least one bulk material bed.

29. (Currently Amended) The method as defined in claim ~~[[28]]~~ 27, wherein said movable bulk material reception mechanism conveys at least a portion of said at least one bulk material to said movable bulk material delivery mechanism.

30. (Currently Amended) The method as defined in claim ~~[[28]]~~ 27, wherein said movable bulk material delivery mechanism and said moveable bulk material reception mechanism are respectively moved over and under the same bulk material bed, and an amount of said at least one bulk material delivered to said bulk material bed is at least partially determined by an amount of said at least one bulk material portion which has been removed from said bulk material bed.

31. (Currently Amended) The method as defined in claim ~~[[28]]~~ 27, wherein said flow of said fluid is interrupted or throttled by said movable bulk material delivery mechanism and/or said moveable bulk material reception mechanism.

32. (Original) The method as defined in claim 24, including a plurality of sources to supply said at least one bulk material to said movable bulk material delivery mechanism.

33. (Currently Amended) The method as defined in claim 24, wherein said movable bulk material delivery mechanism supplies at least two different bulk materials to said at least one bulk material bed.

34. (Original) The method as defined in claim 19, wherein said bulk material bed includes a plurality of different types of bulk material.

35. (Original) The method as defined in claim 34, wherein at least two different types of bulk material are substantially layered in said bulk material bed.

36. (Original) The method as defined in claim 34, wherein at least two different types of bulk material include at least one adsorbent and at least one chemically reactive component.

37. (Original) The method as defined in claim 36, wherein said at least one adsorbent includes activated coke, and said at least one chemically reactive component includes calcium hydroxide.

Claims 38-47 (Cancel)

48. (Currently Amended) A method for treating fluids by at least one type of a first bulk material comprising:

- a. introducing ~~said a~~ first bulk material having a first treatment agent in a fluid stream;
- b. entraining said first bulk material on a filter as said fluid flows through the filter;
- c. removing a filter cake formed by said first bulk material on said filter;
- d. at least partially treating said fluid with said first bulk material in a moving bed reactor, said moving bed reactor including a bulk material bed at least partially formed of a second bulk material having a second treatment agent, said fluid substantially flowing from a bottom to a top of said bulk material bed and said second bulk material substantially moving from the top to the bottom of said bulk material bed,
- e. adding said second bulk material to said top of said bulk material bed and removing said second bulk material from said bottom of said bulk material bed; and,
- f. at least partially separating said first bulk material from said fluid in said bulk material bed.

49. (Original) The method as defined in claim 48, wherein fluid is post reacted with said first bulk material and further treated by said second bulk material as said fluid flow through said moving bed reactor.

50. (Original) The method as defined in claim 48, wherein said first and said second bulk

materials are removed together at said bottom of said bulk material bed.